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(54) Title: MATERIALS AND METHODS FOR FORMING HYBRID ORGANIC-INORGANIC DIELECTRIC MATERIALS

(57) Abstract: The present invention generally relates to methods for making dielectrics for integrated circuit processes and devices. More particularly, the invention relates to multi-level circuit processes, such as damascene processes that utilize metal and metal alloys (e.g., copper and copper alloys) as well as low-k dielectric materials. The methods of the present invention allow for greater control of the dielectric fabrication process.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	C07F7/12	C07F7/18
C08677/04		

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07F C08G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 21924 A (QUESTER TECHNOLOGY, INC., USA) 6 May 1999 (1999-05-06) the whole document ----	1-131
X	VAKS, E. A. ET AL: "Radiochemical synthesis of dichlorotrifluorophenyl and dichloro(trifluoromethyl)phenyl derivatives of silicon" ZHURNAL OBSHCHEI KHMII (1977), 47(4), 782-5, 1977, XP002243352 Table I ---- -/-	1-28, 32-76, 78-129, 131

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Date of the actual completion of the international search	Date of mailing of the International search report
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Rinkel, L

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	FROHN, H.-J. ET AL: "Reactions of methyl(pentafluorophenyl)- and methyl(pentafluorophenyl)phenylsilanes with electrophiles. A convenient preparative route to halo(methyl)pentafluorophenylsilanes C ₆ F ₅ SiMe ₂ X and C ₆ F ₅ SiMeX ₂ (X = F, Cl and Br)" JOURNAL OF ORGANOMETALLIC CHEMISTRY (1998), 570(2), 255-263 , 1998, XP004142856 the whole document ---	1-28, 32-76, 78-129, 131

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